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BUXTON
URBAN DISTRICT COUNCIL.

ANNUAL
REPORT

OF THE
MEDICAL OFFICER OF HEALTH
FOR THE YEAR 1910.

PRINTED BY ORDER OF THE COUNCIL.

JOSIAH TAYLOR, Clerk.

BUXTON:
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1911.

BUXTON URBAN DISTRICT.

MEDICAL OFFICER'S REPORT.

FOR 1910.

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TO THE MEMBERS OF THE BUXTON URBAN
DISTRICT COUNCIL.

GENTLEMEN,

I have the honour of presenting to you my Fourth Annual Report for the year 1910.

The vital statistics are extremely favourable. The net death-rate is much below the average for the last ten years, and is, indeed, the lowest for many years past. The infantile mortality rate is low, and the zymotic death-rate also. The birth-rate, although a little higher than last year, still remains very low.

During the year:—

- (1) A new road, Heath Grove, was made.
- (2) The widening of London Road at Sherbrook was finished.
- (3) The widening of a portion of Green Lane was completed.
- (4) A new Band Stand was erected on the Terrace.
- (5) The principal roads were again Tar-sprayed.
- (6) Cerebro-spinal Meningitis and Plague were added to the list of notifiable diseases.
- (7) The Medical Inspection of children attending the public elementary schools was continued.
- (8) The Inspection of Houses under the Housing, Town Planning, etc., Act, 1909, was commenced.

I have again to thank Mr. Taylor, Mr. Grieves, and Mr. Croghan for the cordial assistance they have always given me at the Town Hall.

I am, Gentlemen,

Your obedient Servant,

T. BUXTON FLINT.

February 27th, 1911.

GENERAL STATISTICS.

1. Elevation of district from 950 to 1,200 feet above sea-level.

Geology:—The town is situated in an upland valley surrounded by hills on all sides, and is built partly on limestone and partly on millstone grit.

Area:—

Land	...	...	...	...	...	...	...	...	1,275 acres.
Water	...	...	...	...	...	...	...	...	20 ,,
Total									1,295 ,,

Population:—

Census, 1891	...	...	...	...	...	...	7,540
Census, 1901	...	...	...	...	...	...	10,181
Estimated, 1910	...	...	...	...	...	...	12,300

Inhabited Houses:—

Census, 1891	...	...	...	...	...	...	1,315
Census, 1901	...	...	...	...	...	...	1,838
Estimated, 1910	...	...	...	...	...	...	1,932

New houses erected during the year, 8.

Rateable value, £93,567.

Assessable value, £91,111.

General District Rate, 3s. 6d. in the £ (including 1d. for Free Library).

2. VITAL STATISTICS.

Birth-rate.	Infantile Mortality.
14.2	57.1

Death-rates per 1,000.

	Epidemic	Enteric Fever	
	Diseases.	and	
All Causes.		Diarrhœa.	Phthisis.
9.512	.0813	.0813	.731

BIRTH-RATE.

During the year 175 births were registered, or at the rate of 14.2 per 1,000 of population. During the last decade the average birth-rate was 19.0 per 1,000. Of these 175 births registered 90 were boys and 85 girls. Thirteen children were illegitimate.

DEATH-RATE.

The total number of deaths registered in the district was 132. Of these, 22 occurred in public institutions in the district who were non-residents; on the other hand, 7 deaths of Buxton residents were registered in public institutions beyond the district, thus giving a net total of 117 deaths at all ages belonging to the district, or at the rate of 9.512 per 1,000 of the estimated population. Sixteen of the 117 deaths were those of visitors to the town, and on deducting them, 101 deaths are left, which give a *corrected* death-rate of 8.211 per 1,000. The average net death-rate during the last 10 years was 11.679.

EPIDEMIC DISEASES.

Only 1 death occurred, giving a death-rate of .0813 per 1,000. This was due to whooping cough.

INFANTILE MORTALITY.

Ten children died under one year of age, or at the rate of 57.1 per 1,000 births registered. Two of them were prematurely born, 1 died from convulsions, 4 from wasting diseases, 1 from tuberculous peritonitis, 1 from bronchitis, and 1 from pneumonia.

The average infantile mortality during the last decade was 98.0 per 1,000 births.

ENTERIC FEVER AND DIARRHŒA.

One death occurred, giving a death-rate of .0813.

PHTHISIS.

Nine deaths occurred, giving a death-rate of .731 per 1,000.

CANCER.

Eight deaths occurred, giving a death-rate of .650.

PNEUMONIA.

Seven deaths occurred, giving a death-rate of .569 per 1,000.

The Infectious Diseases Prevention Act, 1890, was adopted by the Council on the 23rd January, 1891.

The Public Health Acts Amendment Act, 1890, was adopted by the Council on the 6th of January, 1891.

The District Council has not yet been recommended to adopt the Notification of Births Act, 1907.

The Public Health Acts Amendment Act, 1907, has not yet been adopted. It has been fully discussed, and returned to the Local Government Board for approval.

3. OCCUPATIONS OF INHABITANTS.

The principal occupations of the inhabitants are the keeping of apartment-houses and shop-keeping. Many of the inhabitants also work in the limestone quarries, which are, however, outside the district. There is no particular occupation which has a bad influence on health.

4. HOUSE ACCOMMODATION.

The house accommodation of the working classes is ample, and the sanitation is for the most part quite up to date.

Under the Housing, Town Planning, etc., Act, 1909, 54 houses were inspected, and a separate record for each house kept. The inspections were made by the Medical Officer of Health and the Sanitary Inspector acting conjointly. With one exception, the rent

per week ranged from 4s. 6d. (exclusive of rates and taxes) to 7s. (inclusive) per week. There were no back-to-back houses, and no underground room habitually used as a sleeping-place was found.

Most of the houses were well and tidily kept, but a few of the tenants were decidedly slatternly, and their houses dirty and untidy throughout.

No house was closed during the year as unfit for habitation.

5. WATER SUPPLY.

There are 2,271 houses supplied from public supplies. The water supply is obtained mainly from gritstone and upland surface waters, and is free from pollution. The present reservoirs are situated two at Lightwood, one at Cold Springs, and two at Burbage, and together have a storage capacity of 30,000,000 gallons. The Stanley Moor Reservoir, which is practically completed, will, it is hoped, give an additional supply of 80,000,000 gallons.

The water from the drainage area at Stanley Moor is filtered through Bell's High-Pressure Filters before being passed into the town. This removes the peaty matter and surface contaminations. Recently Dr. Barwise, the County Medical Officer of Health, made an examination of the water from these filters.

Dr. Barwise stated in his report on the results of his analysis that the free ammonia in the water was reduced from .004 parts per 100,000 to .001, and that the albuminoid ammonia in the filtered water was reduced from .020 parts to .008 parts, and the bacteriological examination showed the purification effected by the process to be 93 per cent. in the case of organisms living at blood heat, and in the case of organisms living at 20deg. C. the purification effected was 98 per cent. He further stated that this is a very high degree of purification, and compares favourably with that effected by the sand-filters of the London water supply. In the filtered water there was no trace of any organism of the B. Coli type, and it must be regarded as one of quite exceptional purity.

There are no houses with no supply within 100 yards.

There are no houses supplied from surface wells.

No houses are supplied from springs.

None of the supplies are liable to pollution .

No cases of lead-poisoning have come to the knowledge of the Medical Officer of Health either through death returns or informal notifications by medical practitioners, or by other channels.

One supply of water, viz., that at Cold Springs, is very soft, and it has been found necessary to add lime to prevent plumbo-solvency. This method is in constant and regular use. The water has been recently tested, and shows no trace of lead present. The acidity is practically *nil*. Portions of lead pipes through which the water has been running for the last three or four years show no signs of being affected by the water.

6. MILK SUPPLY.

There are 11 Cow-keepers on the register.

The number of cows is 27.

The number of Milk-sellers (not cow-keepers) is 4.

Cow-sheds.—There are 11 cow-sheds in the district, the cubic space per cow being 933, 777, 784, 755, 660, 629, 842, 510, 455, 850, and 341 cubic feet respectively. All the sheds are used by cows which are habitually turned out during a part of each day. No action was taken under the Cow-sheds Order.

	No. of registered.	Inspections made.	Defects found.	Remedied.
Cow-houses ...	11	44	1	—
Dairies ...	4	16	0	—
Milk Shops ...	18	72	0	—

Milk is also supplied from 54 sources outside the district.

7. MEAT INSPECTION, ETC.

There are 6 slaughter-houses, all private, but inspected by the Council's officials. They are not visited regularly at times of slaughtering, for there are no special days or hours. The Sanitary Inspector is present occasionally while carrying out his routine work. All the slaughterhouses were found to be satisfactory, and are well managed.

Other premises where foods are prepared, stored, or exposed for sale were found to be satisfactory.

Thirty-eight samples of Food and Drugs were collected, and on analysis by Mr. John White, F.I.C., County Analyst, 2 were found to be adulterated.

8. SEWERAGE AND DRAINAGE.

Practically the whole of the sewage removal is on the water-carriage system. The storm water and rain water are, whenever possible, dealt with separately. Arriving at the works, the sewage is first coarsely strained, then mixed with lime (12 grains to the gallon) and natural iron water, which precipitates the solids in tanks made for the purpose. This solid portion is pressed into cakes, and makes a valuable manure. The liquid portion flows through clarifiers, which further purify it, and passes through iron pipes to the bacteria beds, over which it is distributed by seven revolving sprinklers, used alternately. These filter beds are made with clinkers obtained from the refuse destructor, and the micro-organisms in the interstices of the clinkers effect so high a degree of purification that the effluent may be run into the stream innocuously.

The precipitation tanks, the clarifiers, and the bacteria beds with their sprinklers, all continue to do their work well. This is proved by the last analysis, made September, 1910, by Dr. Barwise, the County Medical Officer of Health, which shows that the effluent is a most satisfactory one. The details of the analysis are as follows (*the figures refer to parts per 100,000*):—

Method of Treatment, Precipitation Tanks and Percolating Filters.				
Albuminoid Ammonia	...	...	...	.05
Incubator Test (Oxygen absorbed in 3 minutes)—				
Before Incubation. A.	...	...	...	.166
After 7 days' Incubation at 80deg. F. B.	...	...	...	.166
Putrescibility, measured as Oxygen required. B.	...	...	...	Nil.
minus A.	...	...	...	Nil.
Nitrogen as Nitrates, the higher the figure the better	...	...	...	.30
effluent	...	...	...	12ins.
Opacity, depth through which pearl type can be read...	...	...	...	12ins.
Remarks.—Fine weather, no smell; clear.				

EXPLANATION OF TERMS USED.

ALBUMINOID AMMONIA. An effluent should contain *less* than 0·1 parts per 100,000 of albuminoid ammonia.

NITROGEN AS NITRATES. An effluent should contain *more* than ·5 parts per 100,000 of nitrogen as nitrates. The nitrates are produced by the action of the oxygen of the air in the pores of the land or intermittent filters. The amount of nitrogen oxidised to nitrates, is the best index of the efficiency of the action of the land or filters.

INCUBATOR TEST. An effluent should be so thoroughly oxidised that it does not absorb more oxygen after incubation for one week than it does at the time of collection.

SHAKE TEST. A simple test, which can be readily applied, is to shake vigorously for one minute a bottle half filled with effluent; all frothing should disappear in three seconds.

OPACITY TEST.—An effluent should be so transparent that pearl type can be read by a person with normal sight through a column ten inches in depth.

9 POLLUTION OF RIVERS AND STREAMS.

No serious pollution was found.

10. EXCREMENT DISPOSAL.

The approximate number of houses with:—

	Privy Middens	Pail Closets	Water Closets	Stop Water Closets
is	0	88	1886	6
			(3612 closets)	

No. of houses converted from privy middens to water closets	No. of defective privies improved	No. of houses converted from pail closets to water closets
0	0	1

There are no privy middens in the district, and the general policy of the District Council is to get rid of, also, at as early a date as possible, the existing pail closets and out-of-date w.cs.

11. REMOVAL AND DISPOSAL OF HOUSE REFUSE.

There is public cleansing for the whole of the population. It is carried out by the servants of the District Council, under the direction of the Sanitary Inspector. The men are eight in number, and there are four carts; each cart has its own locality to attend to. The cost per annum is £806 7s. 0d., or 7s. 9d. per house. The cost of scavenging pails once every week, or fifty-two times per year, is 1½d. The refuse is removed twice weekly from the ashbins by the Council's carts, and taken to the destructor, where it is burnt.

Three-quarters of the houses are provided with galvanised iron bins (with covers). During the year 4,212 loads of refuse, weighing 4,185 tons, were removed.

The destructor continues to work well, the three cells burning all there is to be burnt daily in nine hours—about 18 tons.

12. NUISANCES.

There is no special nuisance requiring abatement.

13. BYE-LAWS, ETC.

The Council has taken the following action with regard to places over which it has supervision:—

Lodging-houses	None
Slaughter-houses	Bye-laws adopted 1859
Dairies and Cow-sheds.....	Orders adopted 1906
Bakehouses (underground).....	Bye-laws adopted 1904
Offensive Trades Nuisance	Bye-laws adopted 1886
Factories and Workshops	None
New Streets and Buildings	Bye-laws adopted 1886

14. SCHOOLS.

The medical inspection of children attending the Elementary Schools was continued during the year.

In 1910 only the entrants and those leaving school were inspected.

The number of children inspected was 235. Of these 19 were verminous, 26 had defective vision, 21 had nasal obstruction from enlarged tonsils and adenoids, 9 were backward, 2 had tuberculosis, and 5 were deaf; 109 houses were visited by the Nurse.

In the majority of cases the conditions were remedied, in some there was some effort to remedy, in others there were promises from the parents, and in a few cases the parents were unable to do anything. The average time per head occupied by inspection was ten minutes.

In addition, 10,152 heads were examined by the Nurse, and 126 children were found to be verminous and 2 to be suffering from ring-worm.

Nurse Horrocks has again been of the greatest help in weighing and measuring the children and in following up the cases.

The Head Teachers, too, have, without exception, always given cordial assistance when required.

Up to the present time, whenever a physical defect has been found, nothing has been done as regards treatment beyond advising the parents to consult their own medical man about the child, but many parents were not in a position to pay for what was necessary, and it has been suggested by Dr. Barwise that a Children's Provident Club be formed, every child to pay 1d. a month (or 2d. a quarter). However, owing to the parents being unwilling to contribute this amount, the scheme has fallen to the ground, and efforts are now being made to improve the children's health by attacking, and so preventing, the *causes* of their ailments.

The sanitary condition of the schools remains exactly the same as last year (see last year's detailed report).

If a case of scarlet fever or diphtheria occur in a school, the class-room in which the child was is disinfected at the week-end, and thoroughly cleansed.

There were no departments nor classes closed on account of infectious disease.

15. FACTORIES AND WORKSHOPS.

There are 141 factories, workshops, and work places, including bakehouses, on the register.

Five hundred and sixty-four visits of inspection were paid to them, and their condition, with the following exceptions, was found satisfactory:—In 1 factory there was want of ventilation; in 2 workshops there was unsuitable sanitary accommodation; in 1 workshop the drainage was defective, and in 1 bakehouse there was lack of cleanliness. All were remedied.

In addition, action was taken in 3 cases referred by H.M. Inspectors as remediable under the Public Health Acts but not under the Factory and Workshops Act (S. 5).

Offences under the Factory and Workshops Act:—

(1) There was no illegal occupation of underground bakehouses.

(2) There were no breaches of special sanitary requirements for bakehouses.

(3) (4) and (5) No home work.

The bakehouses were on the whole satisfactory, but several might be improved. The only underground bakehouse in the district was found to be well kept.

16. INFECTIOUS DISEASES.

Details of action taken, after notification, to prevent spread of disease:—

On receiving notification of an infectious case, the house is visited with as little delay as possible, and enquiries are made to ascertain how the case has arisen—whether from another case or from milk, or water, or drains, or school, etc., etc.—and steps are taken to prevent the other inmates from contracting the disease either by vaccinating contacts or from injecting antitoxin or simply giving instructions according to the nature of the case. All children in the house are kept from school and the parents are, until danger of spreading the disease is over, kept from work if that work endangers the public health. Then, if the case is a fit one for removal, and the parents are willing, the case is removed to the Isolation Hospital the same day, in a closed van, by the Sanitary Inspector, who also takes steps to disinfect the premises the same evening.

In addition, in the case of a child attending school, notices are sent to the Head Teacher of the day school, the Superintendent of the Sunday school, and to the Librarian, informing them of the illness, so that they may take the necessary precautions.

	Small Pox	Scarlet Fever	Diphtheria	Enteric Fever	Puerperal Fever.
Number of Cases Notified	0	23	15	0	0
Number of Cases Removed to Hospital	0	22	14	0	0
Return Cases.....	0	0	0	0	0

SMALLPOX.

No case occurred.

One cannot but view with alarm the very large number of vaccination exemption orders granted to conscientious objectors during the last three years (1908—37. 1909—41. 1910—50). A single case of small-pox, if not at once detected, would spread like fire in dry grass among an unprotected population. In a town like this, where the bulk of the inhabitants depend almost entirely on visitors, such an event would be disastrous. In Germany, where vaccination and re-revaccination are compulsory, small-pox hardly exists.

SCARLET FEVER AND DIPHTHERIA.

The cases were distributed fairly equally throughout the year. The initial cases were, as usual, mostly imported ones. Two small outbreaks occurred, one of scarlet fever, where a child from outside the district infected three other children; the other of diphtheria, in which a patient at one of the institutions in the district, recently admitted, infected her neighbours, three in number. In both cases the persons concerned were promptly isolated, and the spread of the disease checked.

ERYSIPELAS.

Two cases occurred.

PHTHISIS.

One case was notified voluntarily.

Antitoxin is provided free of charge for persons who cannot afford to pay for it.

DETAILS OF MATTERS OF DISINFECTION AND DISINFECTANTS USED.

For aerial fumigation Formalin and Sulphur are the two disinfectants used. For each 1,000 cubic feet of space 40 tablets of the former or 3lbs. of the latter are burnt, producing formic aldehyde and sulphur dioxide respectively. The following day the room is unsealed and the windows kept wide open for at least two days. In addition, the walls and ceilings are rubbed down with stale bread, and the bits burnt. The floor is scrubbed with soft soap and water, as is also the woodwork. The liquid disinfectants mostly used are Izal, Jeyes' Fluid, and Carbolic Acid.

All beds, hangings, carpets, rugs, clothes, and other articles are removed to the disinfecting station and steamed.

The work is carried out by the Inspector's instructions.

Forty-two houses were disinfected, and 814 articles of clothing removed to the disinfecting station.

The Washington-Lyon steam disinfector continues to work satisfactorily.

17. TUBERCULOSIS CONTROL.

In the case of Poor Law persons two notifications were received. Printed instructions, with illustrations, advising what to do, were given to these patients. It is desirable that they should be provided with portable spit cups and also with disinfectant soap, so that their rooms may be thoroughly cleansed from time to time. In case of death the house is disinfected.

In the case of other persons (not Poor Law patients) suffering from Pulmonary Tuberculosis, voluntary notification was adopted by the Council in 1909, and a fee of half-a-crown is paid for each certificate received. One notification has been received.

There is no hospital accommodation for the earlier cases, and none, except the Union Hospital, Chapel-en-le-Frith, for the advanced cases.

18. NOTIFICATION OF BIRTHS ACT.

This Act has not yet been adopted.

19. FURTHER SANITARY REQUIREMENTS.

- (1) Mortuary.
- (2) The consideration of the Notification of Births Act, 1907.
- (3) The adoption of the Public Health Amendments Act, 1907.
- (4) The paving of certain backyards.
- (5) The improvement of certain houses inspected under the Housing and Town Planning Act, 1909.

20. TABLES.

These form an important part of the Report, and show clearly the sanitary state of the district.

Tables I. and II. show the population, the number of births and deaths, and the infantile mortality for the last eleven years, with their rates calculated.

Table III. shows the number of cases of infectious diseases during the past year.

Table IV. shows the causes of and ages at death during the year 1910. Of the total 117 deaths, 54 were 65 years of age or upward. Heart disease was responsible for the largest number of deaths, and cancer and pneumonia were bracketed second.

Table V. shows the number of deaths and the causes in children under one year of age.

Table VI. deals with factories, workshops, laundries, workplaces, and home work.

Table VII. shows the number of deaths due to zymotic diseases during the decade.

Tables VIII. and IX. again show the immense amount of work performed by the Sanitary Inspector, Mr. Croghan; to gain the information recorded there it has been necessary to personally inspect and in many cases thoroughly examine the sanitary arrangements of *every* house in the district.

BUXTON URBAN DISTRICT. TABLE I.
Vital Statistics of Whole District during 1910 and Previous Years.

YEAR.	Population to middle of each year.	Births.		Total Deaths Registered in the District.				Total deaths in Public Insti- tutions in the District	Deaths of non-re- sidents re- gister'd in Public Insti- tutions in the District		Deaths of Resi- dents regis- tered in Public Insti- tutions beyond the District		Nett Deaths at all ages belonging to the District.	
		No.	Rate.*	Under 1 year of age.		At all Ages.			No.	Rate.*	No.	Rate.*	No.	Rate.*
				No.	Rate per 1000 Births regis- tered.	No.	Rate.*							
1	2	3	4	5	6	7	8	9	10	11	12	13		
1900	9284	228	24.5	23	100.8	156	16.8	11	41	8	123	13.248		
1901	10247	243	23.9	27	111.1	142	13.857	7	7	3	138	13.467		
1902	10311	201	19.1	13	64.6	127	12.082	14	10	5	122	11.606		
1903	11000	237	21.5	24	111.2	133	12.090	16	14	3	122	11.090		
1904	11300	230	20.3	39	169.5	142	12.566	13	12	2	132	11.681		
1905	11500	205	17.8	23	112.1	138	12.0	10	8	4	134	11.652		
1906	11700	211	18.0	15	71.0	114	9.743	7	6	4	112	9.572		
1907	11900	195	16.3	17	97.1	142	11.932	10	10	14	146	12.268		
1908	12100	193	15.9	12	62.1	119	9.833	7	7	8	120	9.917		
1909	12200	160	13.1	13	81.3	154	12.622	13	11	9	152	12.295		
Averages for years 1900 to 1909.	11174	210	19.0	20	98.0	136	12.355	10	12	6	130	11.679		
1910	12300	175	14.2	10	57.1	132	10.731	22	22	7	117	9.512		

* Rates in Columns 4 and 8, should be Calculated per 1000 of the Estimated Population.

Area of District in Acres (exclusive of area covered by water)..... 1295
Total population at all ages 10,247
Number of inhabited houses 1,838 } At
Average number of persons per house 5.6 } Census
of 1901.

Institutions within the District receiving sick and infirm persons from outside the District.	Institutions outside the District receiving sick and infirm persons from the District.	Other Institutions, the deaths in which have been distributed among the several localities in the District.
1	2	3
1. Devonshire Hospital. 2. Wye House Asylum.	1. Union Workhouse, Chapel-en-le-Frith. 2. Royal Infirmary, Manchester. 3. Maldeth Hospital for Incurables, Heaton Moor.	
Is the Union Workhouse within the District? No.		

TABLE III.

BUXTON URBAN DISTRICT.

Cases of Infectious Disease notified during the Year 1910.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT,							No. of cases removed to hospital from each locality.
	At all Ages.	AT AGES—YEARS.						
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and up- wards.	
Small-pox	...	...	...	...	...	...	...	...
Cholera	...	...	...	...	...	...	...	...
{ Diphtheria (including Membranous Croup) }	15	...	1	5	3	6	...	14
Erysipelas	2	...	...	1	...	1	...	1
Scarlet Fever	23	...	6	14	1	1	...	22
Typhus Fever	...	...	...	...	...	...	...	...
Enteric Fever	1	...	...	...	1	...	...	1
Relapsing Fever	...	...	...	...	...	...	...	...
Continued Fever	...	...	...	...	...	...	...	...
Puerperal Fever	...	...	...	...	...	...	...	...
Plague	...	...	...	...	...	...	...	...
Phthisis	1	...	...	...	...	1	...	...
Totals	42	1	7	20	5	9		38

Isolation Hospital:—ASHWOOD DALE, BUXTON—Total available beds, 28
Number of diseases that can be concurrently treated, 3.

TABLE IV.

BUXTON URBAN DISTRICT.

Causes of, and Ages at, Death during the Year, 1910.

CAUSES OF DEATH.	DEATHS AT THE SUBJOINED AGES OF "RESIDENTS" WHETHER OCCURRING IN OR BEYOND THE DISTRICT.							DEATHS AT ALL AGES OF "RESIDENTS" BELONGING TO LOCALITIES, WHETHER OCCURRING IN OR BEYOND THE DISTRICT							Total deaths whether of "resident or non-residents" in Public Institutions in the district.
	All ages.	Under 1 year.	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Small-pox...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough ...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria including Membranous Croup	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Croup ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fever { Typhus...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Other continued	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Epidemic Influenza ...	3	...	...	...	...	2	1	...	...	...	...	...	...	...	...
Cholera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plague ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhœa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteritis ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gastritis ...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Puerperal Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other septic diseases...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Phthisis (Pulmonary Tuberculosis ...	9	...	...	...	...	7	2	...	...	...	...	...	...	...	...
Other Tuberculous diseases ...	3	1	...	...	1	...	1	...	...	...	...	...	...	...	...
Cancer, malignant disease ...	8	...	...	...	...	3	5	...	...	...	...	...	...	...	1
Bronchitis ...	9	1	...	...	...	2	6	...	...	...	...	...	...	...	1
Pneumonia ...	7	1	...	...	1	3	2	...	...	...	...	...	...	...	...
Pleurisy ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other diseases of Respiratory Organs ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Alcoholism ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cirrhosis of Liver } ...	5	...	...	...	...	4	1	...	...	...	...	...	...	...	1
Venereal diseases ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Premature Birth ...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Diseases and accidents of parturition...	2	...	...	...	1	1	...	...	...	...	...	...	...	...	5
Heart diseases ...	10	...	...	...	...	4	6	...	...	...	...	...	...	...	1
Accidents ...	3	...	1	...	...	1	1	...	...	...	...	...	...	...	...
Suicides ...	2	...	...	...	...	1	1	...	...	...	...	...	...	...	8
All other causes ...	53	5	2	1	2	15	27	...	...	...	...	...	...	...	...
All causes ...	117	10	4	1	5	43	54	...	...	...	...	...	...	...	22

In recording the facts under the various headings of Tables I., II., III., IV. and V., attention has been given to the notes on the Tables.

T. BUXTON FLINT,
Medical Officer of Health.

February 6th, 1910.

TABLE V.
 BUXTON URBAN DISTRICT.
 INFANTILE MORTALITY DURING THE YEAR 1910.
*Deaths from stated Causes in Weeks and Months under One
 Year of Age.*

CAUSE OF DEATH.				Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-2 Months.	2-3 Months.	3-4 Months.	4-5 Months.	5-6 Months.	6-7 Months.	7-8 Months.	8-9 Months.	9-10 Months.	10-11 Months.	11-12 Months.	Total Deaths under 1 Year.
All Causes	{	Certified	...	2	...	...	3	5	1	...	...	...	1	1	1	...	...	...	1	10
		Uncertified	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Common Infectious Diseases—																				
Small-pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chicken-pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria (including Membranous Croup)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhoeal Diseases—																				
Diarrhoea, all forms	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteritis, Muco-enteritis, Gastro-enteritis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gastritis, Gastro-intestinal Catarrh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wasting Diseases—																				
Premature Birth	...	...	...	1	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	2
Congenital Defects	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Injury at Birth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Want of Breast-milk, Starvation	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Atrophy, Debility, Marasmus	...	...	...	1	...	2	3	...	...	...	...	...	1	...	...	...	...	...	...	4
Tuberculous Diseases—																				
Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuberculous Peritonitis:	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tabes Mesenterica	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1
Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Causes—																				
Erysipelas	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Syphilis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rickets	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Meningitis (not Tuberculous)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Convulsions	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
Bronchitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1
Laryngitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pneumonia	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1
Suffocation, overlying	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Causes	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
				2	...	3	5	1	...	...	...	...	1	1	1	...	...	1	1	10

District of Buxton Urban.

Population.

Estimated to middle of 1910.

12,300.

Births in the year :—Legitimate, 162 ; illegitimate 13.

Deaths in the year of legitimate infants, 9 ; illegitimate infants, 1.

Deaths from all causes at all ages, 117.

TABLE VI.

ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH FOR THE YEAR 1910, FOR THE URBAN DISTRICT OF BUXTON, ON THE ADMINISTRATION OF THE FACTORY AND WORKSHOP ACT, 1901, IN CONNECTION WITH FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES, AND HOMEWORK.

I. INSPECTION.

Including Inspections made by Sanitary Inspector or Inspector of Nuisances.

Premises. (1)	Number of		
	Inspections. (2)	Written Notices. (3)	Prosecutions (4)
Factories (including factory laundries) ... 34	136	—	—
Workshops (including workshop laundries) 86	344	—	—
Workplaces (other than outworkers premises included in Part 3 of this Report) ... 21	84	—	—
Total 141	564	—	—

II. DEFECTS FOUND.

Particulars. (1)	Number of Defects.			Num- ber of Pro- secu- tions. (5)
	Found (2)	Remed- ied. (3)	Referred to H.M. Inspec- tor. (4)	
<i>Nuisances under the Public Health Acts :—</i>				
Want of Cleanliness	1	1	—	—
Want of Ventilation	1	1	—	—
Overcrowding	—	—	—	—
Want of Drainage of Floors	—	—	—	—
Other Nuisances	1	1	—	—
+Sanitary Accommodation	} insufficient	—	—	—
		} unsuitable or defective	2	—
			} not separate for sexes	—
<i>Offences under the Factory and Workshop Act :—</i>				
Illegal occupation of underground bakehouse (s. 101)	—	—	—	—
Breach of special sanitary requirements for bake- houses (ss. 97 to 100)	—	—	—	—
Other Offences	—	—	—	—
Total	5	5	—	—
<i>No Home Work</i>				

† Section 22 of the Public Health Acts Amendment Act, 1890, has been adopted by the Urban District Council.

V. OTHER MATTERS.

Class. (1)	Number. (2)
<i>Matters notified to H.M. Inspectors of Factories :—</i>	
Failure to Affix Abstract of the Factory and Workshop Act (s. 133)	—
Action taken in Matters referred by H. M. Inspector as remediable under the Public Health Acts but not under the Factory and Workshop Act (s. 5).	Notified by H.M. Inspector. 3
	Reports (of action taken) sent to H. M. Inspector. —
<i>Underground Bakehouses (s. 101) :—</i>	
Certificates Granted during the year	1
In Use at the end of the year	1

TABLE VII.

BUXTON URBAN DISTRICT, 1910. SHOWING THE NUMBER OF DEATHS FROM THE PRINCIPAL ZYMOTIC AND ALLIED DISEASES AND THEIR PROPORTION TO OTHER DISEASES DURING THE LAST TEN YEARS.

DISEASES.	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910
Smallpox	...	...	...	...	...	...	...	...	...	...
Measles	...	...	6	...	3	...	...	2	2	...
Scarlet Fever.....	...	...	2	...	...	1	...	1	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...	...
Typhoid Fever	1	1	...	1	2	1	...	...	1	...
Doubtful Fever	1	...	...	...	...	1	...	...	...	...
Croup (not spasmodic)	...	...	...	...	...	...	...	...	...	...
Whooping Cough.....	...	5	...	...	7	2	1	...	...	1
Diarrhoea and Dysentery.....	6	...	...	2	...	1	...	...	...	...
Diphtheria	...	...	...	1	1	...	1	...	...	...
Erysipelas	..	...	...	...	2	2	...	...	...	...
Summary of Zymotics.....	8	6	8	4	15	8	2	3	3	1
Summary of other Diseases.	134	116	114	128	119	104	144	117	149	116
Summary of all Diseases.....	142	122	122	132	134	112	146	120	152	117

TABLE VIII.

SUMMARY OF STRUCTURAL AND OTHER SANITARY WORK EXECUTED
IN INSPECTOR'S DEPARTMENT DURING THE YEAR ENDED 31ST
DECEMBER, 1910.

1.—Sink, lavatory, and bath wastes trapped and repaired	34
2.—Approved gullies fixed in place of others of less sanitary design	67
3.—Complete systems of house drainage reconstructed, discon- nected, and ventilated.....	13
4.—Complete systems of sanitary domestic fittings and accessories erected	7
5.—Water-closet and house drains (temporarily blocked) unstopped	24
6.—House drainage systems examined and tested with smoke 32, with water 13.....	45
7.—Water-closet soil-pipes removed to outside of houses and ventilated	1
8.—New water-closets provided and fixed	21
9.—Privies converted into water-closets (no privies)	0
10.—Pails converted into water-closets	1
11.—Privies converted into pails (no privies)	0
12.—New covered dustbins (galvanised iron) to replace insanitary and worn-out bins	88
13.—Offensive accumulations removed mostly of an unsightly character.....	10
14.—Houses and surroundings fumigated 42 (81 rooms)	42
15.—Beds, blankets, sheets, quilts, bolsters, etc., disinfected by formalin (of these 814 were further disinfected by steam	4833
16.—Yard surfaces paved, flagged, ashphalted, concreted, or gravelled	13
17.—Fall-pipes disconnected from roof-water drainage	40
18.—Slaughter-houses regularly inspected	6

19.—Cowsheds periodically inspected (27 cows housed in such sheds)	11
20.—Dairies and milkshops inspected (4 and 18 respectively) ...	22
21.—Cowkeepers and purveyors of milk who live outside the district, but who sell milk within it, registered	54
22.—Factories, workshops, workplaces, and laundries inspected	141
23.—Bakehouses and confectionries inspected	22
24.—The night-soil has been removed once weekly from the pails, necessitating 156 visits from the scavenging carts	156
25.—The house refuse has been removed twice weekly from every house in the district; it amounted in loads to 4212, and weighed 4185 tons	4185
The number of inhabited houses in the district, 31st December	1932

Table showing the Character of the Drainage, Drainage Accidents, and Sanitary Fittings in connection with the whole of the Houses in the SANITARY DISTRICT OF BUXTON. (1)

31st DECEMBER, 1910.	No. and Class of House.						Foul Drainage.			Roof and Surface Water Drainage.			Fall Pipes.		Water-closets.		V.S.	Baths.		Lavatories.		Sinks.		Yard Formations.				Portable Refuse Receptacles.		Ashpits.		Privies.		Pail Closets.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
NAME OF STREET.	Houses having						No.	Count Joints disconnected & ventilated. Clay joints and connected direct.	No.	Separate System. One System only.	No.	Cut off. Connected direct.	No.	Hopper. Fan. "Wabcock". Washdown.	Cut off and trapped.	Cut off only.		Cut off and trapped.	Cut off only.	No.	Cut off and trapped.	Cut off only.	No.	Cut off and trapped.	Cut off only.	No.	Not formed. Flagged. Asphalted. Pavement. Gravelled.	No.	Wood. Galvanized iron.	No.	Covered. Uncovered.	No. of houses accommodated.	No.	No. of houses accommodated.	No.	No. of houses accommodated.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
No. of Houses.	2 Rooms.	3 Rooms.	4 Rooms.	5 Rooms.	6 Rooms and above.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Col.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
White Knowl Road	26	...	...	...	1	25	26	26	...	...	26	26	...	143	133	10	32	16	...	...	36	26	...	...	25	...	26	26	...	30	30	...	26	...	3	17	...	6	26	...	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(2)

31st DECEMBER, 1910.	No. and Class of House.					Foul Drainage.	Roof and Surface Water Drainage.	Fall Pipes.	Water-closets.	Water Supply.	Baths.	Lavatories.	Sinks.	Yard Formations.	Portable Refuse Receptacles.	Ashpits.	Privies.	Pail Closets.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NAME OF STREET.	Houses having					No.	No.	Cut off. Connected direct.	No.	Hopper. Fan. "Wabcock". Washdown.	No.	To Separate System direct from Main. From Joint Client.	No.	Cut off and trapped.	Cut off and trapped.	Cut off and trapped.	No.	No.	No.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	No. of Houses.	2 Rooms.	3 Rooms.	4 Rooms.	5 Rooms.															6 Rooms and above.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
						Count Joints disconnected & ventilated. Clay joints and connected direct.	Separate System. One System only.							Cut off and trapped.	Cut off and trapped.	Cut off and trapped.	Not formed. Flagged. Asphalted. Pavement. Gravelled.	Wood. Galvanized iron.	Covered. Uncovered.	No. of houses accommodated.	No. of houses accommodated.	No. of houses accommodated.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Col.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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St. James' Terrace, etc.	18	...	...	...	...	...	6	18	...	...	...	...	18	62	31	31	34	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

